

# **SIDAC**

**Supportability Investment Decision Analysis Center**

Contract No. F33657-92-D-2055/0087  
CDRL A007, Data Item DI-A-3024A  
Report No. SID/MR-96/0095

(Unclassified)

## **PRESENTATION MATERIAL**

**for**

**Army Logistics  
Assessment Program**

Prepared for

HQ USA/DALO-RMI  
500 Army Pentagon  
Washington, DC 20310-0500

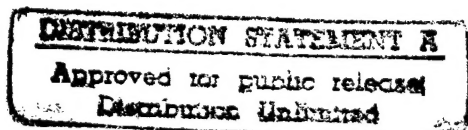
21 June 1996

Prepared by

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19970128 053

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<b>13. ABSTRACT (Maximum 200 words)</b>  The proof-of-concept model for ALAP demonstrates the feasibility of equating Army measures of OPTEMPO, maintenance rates, and funding levels to sustainment capability. Synergy's ALAP shows that we can link weapon system readiness to sustainability given current and future programmed budget positions to create a viable POM and PPBES decision-support tool. This model also supports the hypothesized outcome of current funding levels affecting future capabilities to successfully prosecute combat missions and contingency operations.				
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## **SECTION 1**

### **INTRODUCTION**

The attached presentation materials contain the slide presentations of project reviews conducted for the development of the Army Logistics Assessment Program (ALAP).

**APPENDIX A**  
**PEACETIME AND WARTIME MODELING**

**SYNERGY**

# **PEACETIME AND WARTIME MODELING**

**Jim Lutz  
Ray Reed  
Sean Trench  
Mike Austin**

**JUNE 95**

# **REQUIREMENT**

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**THE ARMY NEEDS THE ABILITY TO PERFORM  
PEACETIME AND WARTIME CAPABILITY ASSESSMENTS  
BASED ON RESOURCE FUNDING FOR  
CURRENT AND IN THE FUTURE (POM YEARS)**

# **BACKGROUND**

**ARMY Develops Peacetime & Wartime Requirements (Class IX)  
Funding Applied During Budgetary Process**

**Peacetime:**

**Funding Has Been Good But The Good Times May Be Short Lived  
DS/DS Inventories Plus Drawdown Have Reduced Anxieties  
However, The Army Needs A Predictive Assessment Tool**

**SEAME/SPA Provide Capability to Assess Current + One Year**

**Gen (R) Thurman, On Meyer Readiness Task Force  
Impressed With USAF Predictive Models (FAMMAS & WINLAM)**

**Successful FAMMAS Prototype Developed  
Provides Capability To Assess MC (NMCM + NMCS)  
Beginning Production Version (ECD: Sep 95)**

**A**

**SEAME/SPA Plus FAMMAS Provides Capability to Assess Current + POM Years**

**Synergy**

# BACKGROUND cont.

## Wartime:

Funding Has Not Been Adequate And The Assessment Capability Limited

OSRAP Is A Good Assessment Tool But Limited To Current + One Year

If The Balloon Goes Up Today, WRM Will Be Sourced From Peacetime Assets

Currently, There Are Enough Assets To Meet The Most Stringent Tasking

However, Will There Be Enough Two or Three Years From Today

If The Current Philosophy Continues, "Do More With Less"

And You Lack The Ability To Assess The Impact Of Funding Shortfalls  
Then OSD/Congress Will Continue To Not Fund WRM  
Until The Army Develops A Capability To Show Impact

The DOD Budget Is Usually A Zero Sum Game

Consequently, The Air Force Wins And Army Loses  
Because Air Force Can Demonstrate Impact (WINLAM)

A - 4

*The Army Needs The Capability To Assess Current + POM Years      Synergy*

# **BACKGROUND cont.**

**OSRAP Is A Good Assessment Tool:**

**Determines Total (Class IX) Wartime Requirement (Current + POM)  
Assess Capability Of Current Stocks + Projected Buys (FY95/96)**

**However, Can Not Assess POM Requirement (FY97-02)**

**No Procedure To Predict An Asset Position Beyond Current Buys  
No Ability To Assess Impact To Funding Shortfalls**

***Need To Expand OSRAP To Assess POM Funding Impacts***



# PROPOSED SOLUTION

---

## **Peacetime Capability Assessment Tool:**

**Synergy Develop An Army FAMMAS (Predictive Assessment Tool)  
AMSAA Modifying OSRAP To Assess Current Asset Position  
AMSAA/Synergy Integrate Army FAMMAS Into OSRAP**

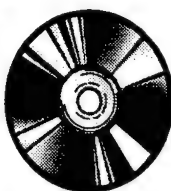
## **Wartime Capability Assessment Tool:**

**Synergy Develop A Wartime Predictive Assessment Capability  
AMSAA/Synergy Integrate This Capability Into OSRAP**

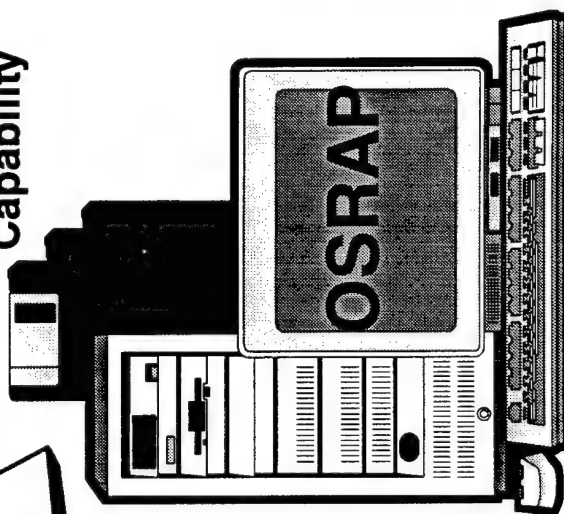
**Enables OSRAPs Ability To Assess MC (NMCM + NMCS) For Current + POM**

# OSRAP ARCHITECTURE

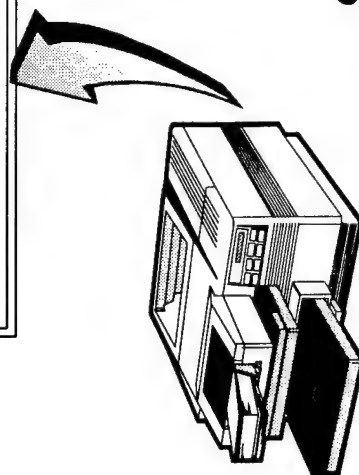
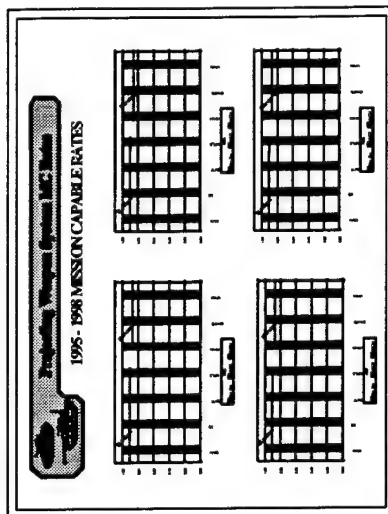
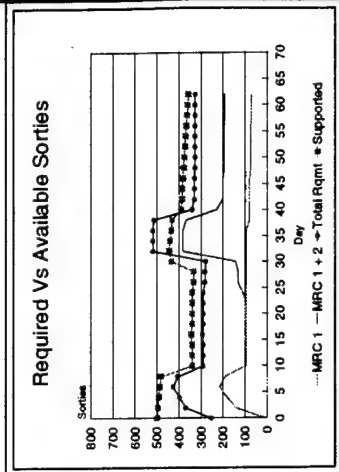
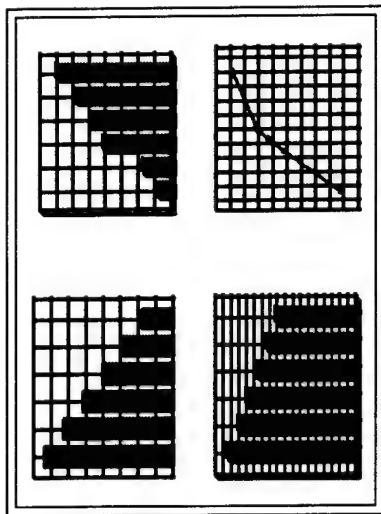
OSRAP DATA  
SOURCE



SYNERGY'S  
Wartime Predictive  
Capability



GRAPHIC OUTPUTS



Synergy

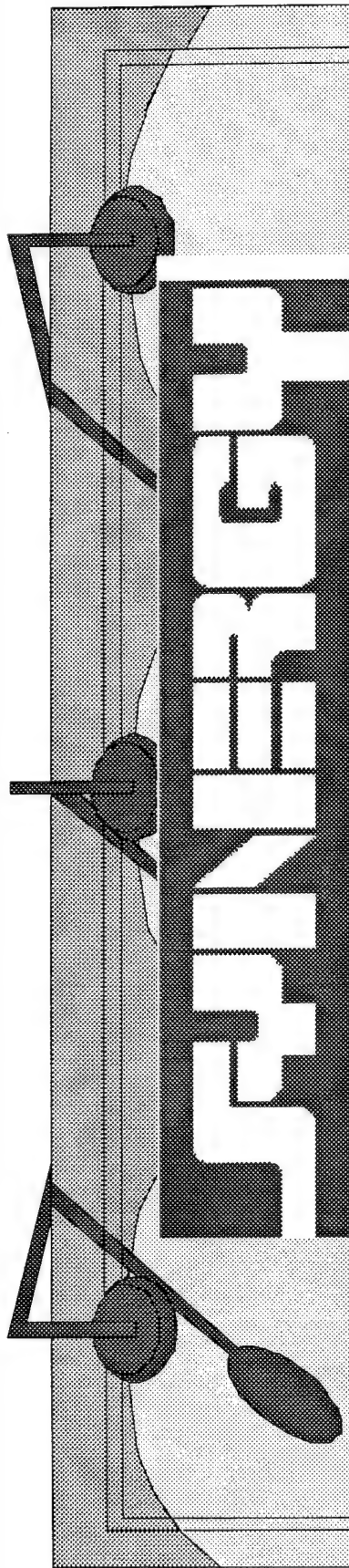
# **FUTURE ENHANCEMENTS**

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## **Make OSRAP An Even Better Tool:**

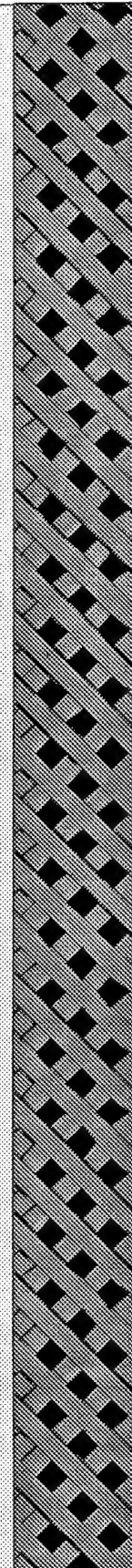
**Synergy Asked To Develop Methodology To Assess SE/Mods/Depot  
Synergy/AMSAA Integrate SE/Mods/Depot To OSRAP  
AMSAA Desires To Incorporate Other Classes Of Supply In OSRAP**

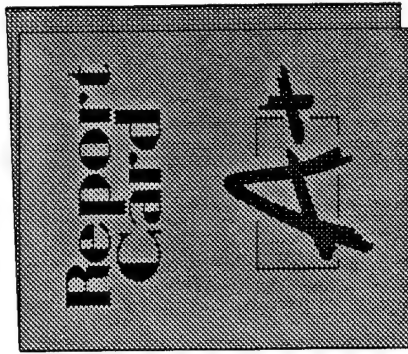
**APPENDIX B**  
**ARMY LOGISTICS ASSESSMENT PROGRAM UPDATE**



# **Army Logistic Assessment Program Update**

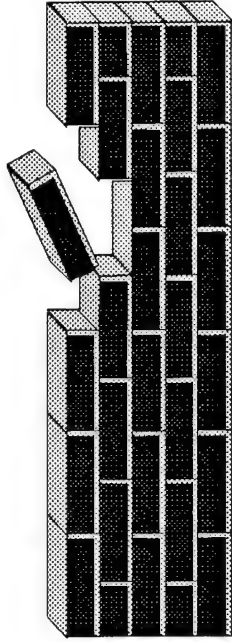
29 August 1995





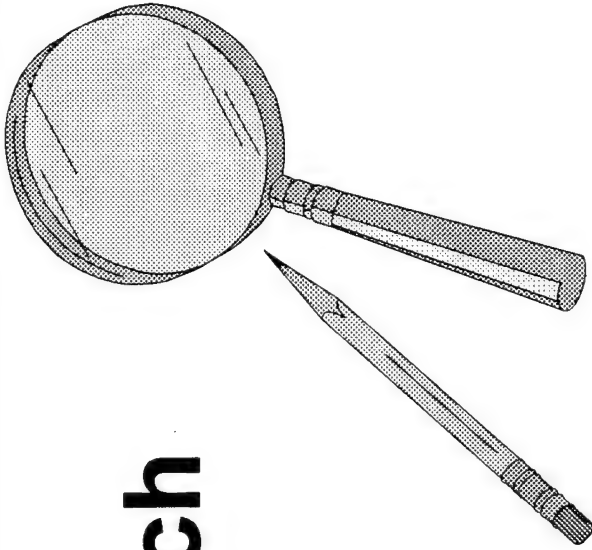
- To provide an Update on the Current Status of the ALAP
- To Obtain a Consensus on the Direction of Effort for Work Under the ALAP Contract

# Current Work



- Collect Wartime Data
- Address Sustainment/Contingency Issues and Tradeoff Analysis Among the 16 SORTS Weapon Systems
- Investigate Development of Wartime Version of FAMMAS

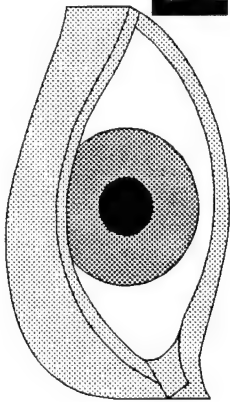
# Research



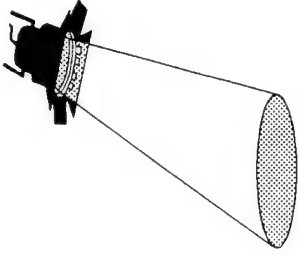
# OSRAP

- Optimum Stockage Requirements Analysis Program
- Similar Input Requirements - Both Predict Weapon System Operational Availability
- OSRAP Fulfills AMC Sustainment Analysis Requirements

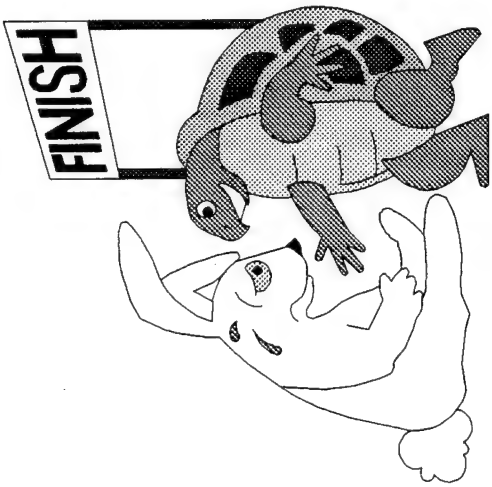




# Refocus ALAP Effort Towards PDM Modeling



- Research
  - Issues
    - Trade-off Capabilities
    - O&S Cost
- Architecture Development
- Proof of Concept Model



# Summary

- Synergy on Contract for work
- Original work planned no longer desired
- Alternative Projects identified and requested
- Synergy ready to refocus work effort
- Current Contract allows refocusing effort

# Decision

- Work on PDM Modeling
- Continue Work as currently written
- Work with Key Players to ID other areas of interest

**APPENDIX C**

**PROPOSAL FOR PROGRAMMED DEPOT MAINTENANCE MODELING**

# Background

- Synergy Proposed PDM Modeling for JDMAG
- PDM Modeling for Army suggested
- FAMMAS Statement of Work Modified to include PDM Factor in Weapon System Readiness
  - Modified FAMMAS account for average number of systems in depot
  - Missed Opportunity
- PDM modeling should be consistent with JDMAG proposal

C-1

# Approach to JDMAG Modeling Support of PDM

- Multi - Phase Effort
- Critically review completed phase to analyze justification for continuing

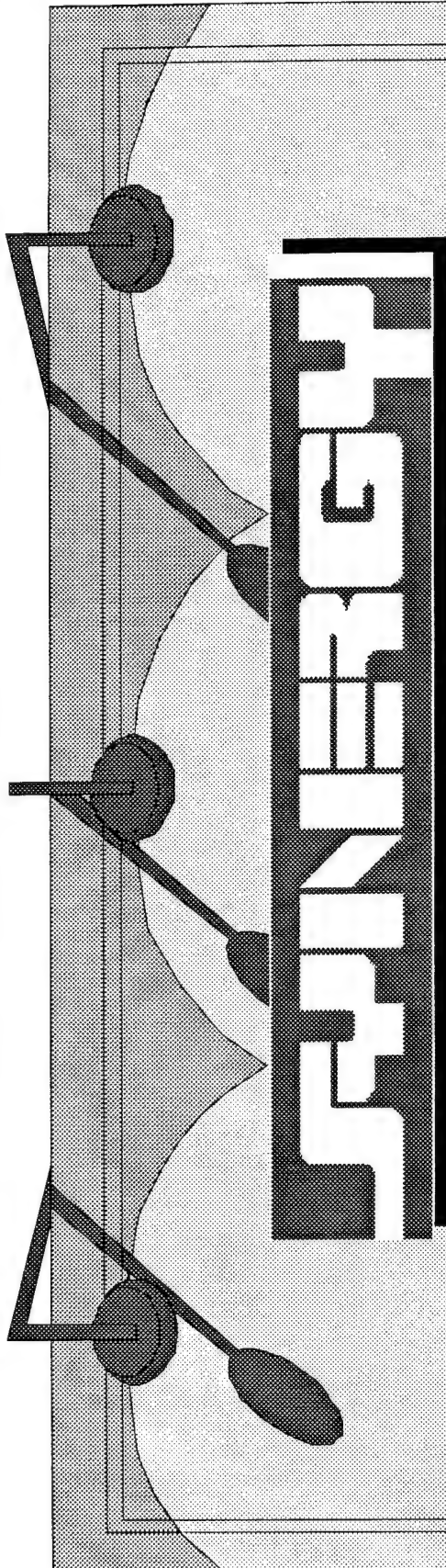
C-2

# Road Map for Army PDM Modeling

- Identify & Understand the Problem - Conduct Research and Analysis to uncover significant statistical indicators
- Relate PDM Budgets to Weapon System Readiness -
- Develop Proof of Concept Model

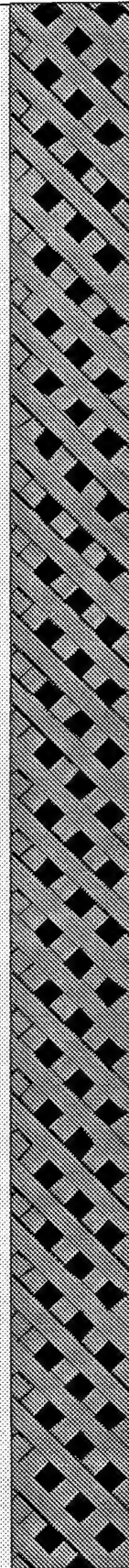
**APPENDIX D**  
**ARMY LOGISTICS ASSESSMENT PROGRAM UPDATE**



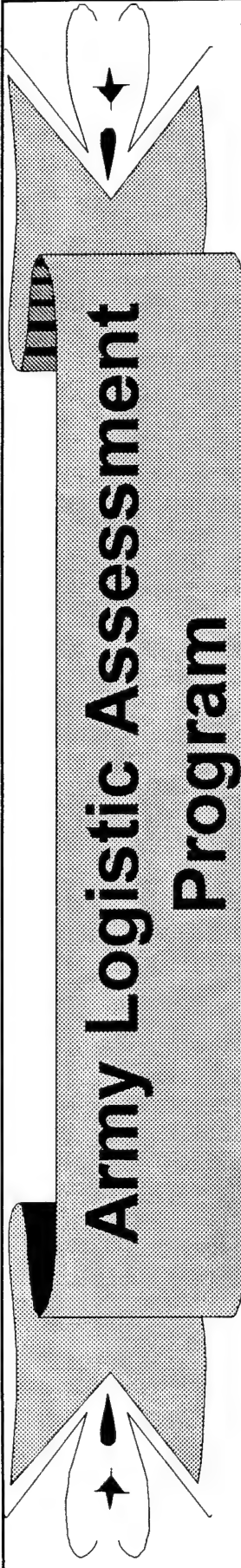


# Army Logistic Assessment Program Update

5 March 1995



**SPINERGY**



# **Army Logistic Assessment Program**

## **Progress Review**

### **Agenda**

- Purpose
- Background
- Statement of Work
- The ALAP Contract Description
- Chronology of Events
- Contract Objective
- Synergy's Approach to Contract Completion
- Status
- Architecture
- Data Source
- Summary



## Purpose

- To Present an Historical Overview of Synergy's Army Logistic Assessment Program (ALAP) and efforts to complete the Project
- To Provide an In-Progress Update as of 5 March 1996
- To Preview the Projects Completion



## Background

### FALL 1993:

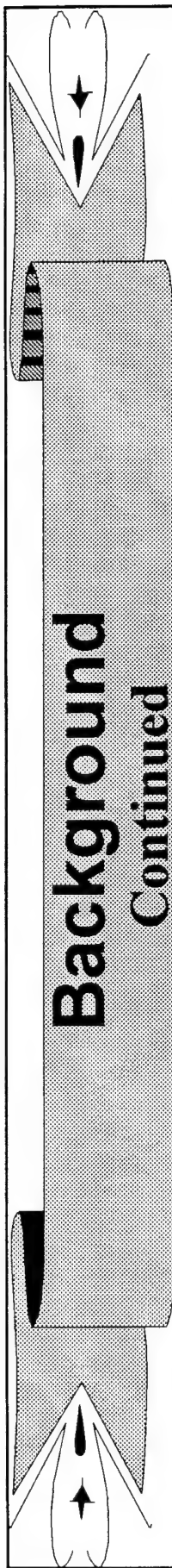
- GEN(R) Thurman, on Meyer Readiness Task Force, Impressed with USAF FAMMAS

- FAMMAS = Funding/Availability Multi-Method Allocator for Spares

### DEC 1993:

- DCSLOG GEN. Salomon and DUSD (LOG) Mr. Klugh direct test on AH-64 Apache

- Results were promising



## **JAN 9, 1994:**

- Dr. Perry Memo added Momentum

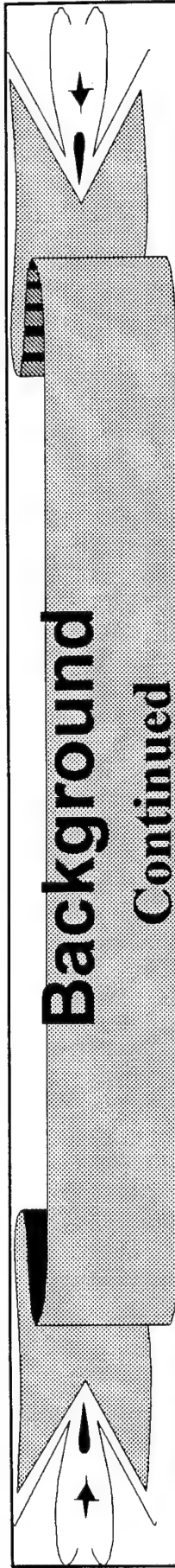
## **FEB-MAR 1994:**

- GEN Salomon directed testing on additional 3 Helicopter systems, Results Acceptable

## **APR 1994:**

- DCSLOG GEN. Wilson directed test on M1A1 & Bradley Fighting Vehicle
- FAMMAS successfully fitted to ground systems





## **MAY 1994:**

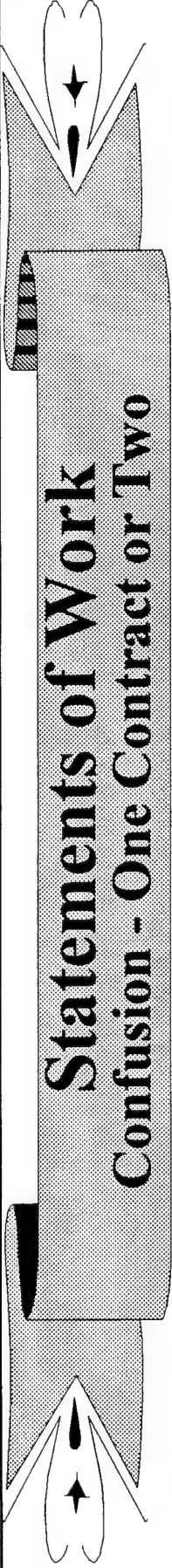
- GEN Wilson directed test on all 16 Major SORTS systems
  - Including USMC M1A1 & HMMWV
  - Completed initial testing on all 16 Major SORTS systems and results briefed up to Army Vice Chief of Staff level
  - Synergy and DALO-RMI negotiate two (2) work efforts:
    - The first is to put FAMMAS in a Windows environment
    - The second is to enhance FAMMAS and conduct Wartime Logistic assessments



## Background

### Why ALAP

- Army Logistic Analysis Program (ALAP) reasonable follow on and complement to FAMMAS
- Assesses the sustainability of weapons systems in multiple MRC scenarios
- POM tool to graphically to asses sustainability given a budget position
- Provide total Peace-to-War Funding Scenario



## Statements of Work Confusion - One Contract or Two

### **FAMMAS -**

#### **Purpose**

"...Development of an Army Readiness Model. The model will assess peacetime readiness..."

---

#### **Work To Be Accomplished**

The contractor will design an Army FAMMAS model in a Windows environment. The model will be subject to a Preliminary Design Review (PDR) and a Critical Design Review (CDR). A Critical Design review will be held to finalize changes to the model.

### **ALAP -**

#### **Purpose**

"...Development of an Army Readiness Model. The model will assess peacetime readiness..."

---

#### **Work To Be Accomplished**

Perform wartime logistic assessments. The contractor will...install a separate module within FAMMAS which enables the logistics community to assess the impact on system readiness caused by MODs, Depot Maintenance, and common support equipment (CSE)





# Statements of Work

## Confusion - One Contract or Two

### **FAMMAS -**

#### Purpose

"...Development of an Army Readiness Model. The model will assess peacetime readiness..."

#### Deliverable

- Preliminary Design Review (PDR)
- Critical Design Review (CDR) Briefing
- Functional Description
- User's manual
- Software

### **ALAP -**

#### Purpose

"...Development of an Army Readiness Model. The model will assess peacetime readiness..."

#### Deliverable

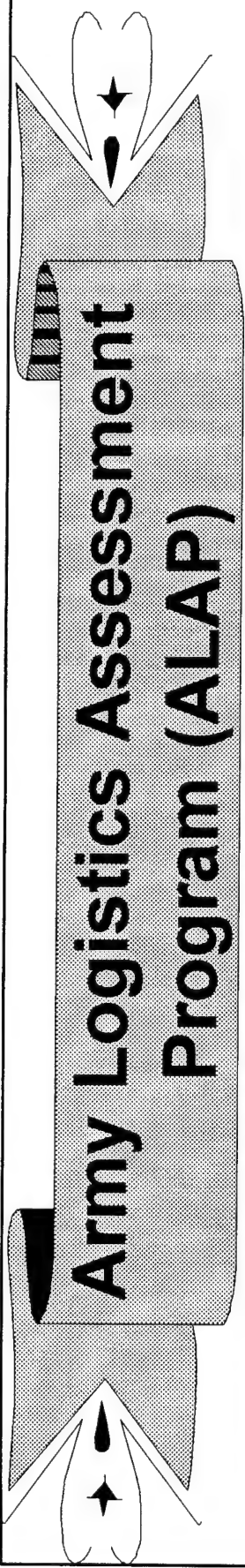
- Technical Report
- Briefing of Tech Report
- Update Functional Description,
- Update User's Manual
- FAMMAS Enhancement Software



# Army Logistic Assessment Program

## A Basic Description

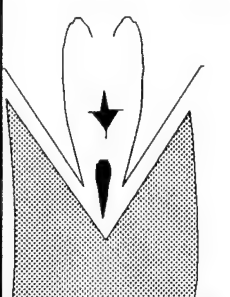
- A Multi-Tasked Project
  - Enhancements to FAMMAS
  - Assess the Development of an Army Version WINLAM (Sustainment Model)
- WINLAM - A Decision Tool
  - Macro-level Budget Analyses
  - Quick assessments of programming and budgeting decision impact on Sustainment Capability



# **Army Logistics Assessment Program (ALAP)**

## **A Chronology of Events**

- 16 Jan 95 - Contract dated
- Feb 95 - Work Begins
- Apr 95 - First Meeting with Principal Players At LOGSA
- ALAP Briefed as Wartime Version of FAMMAS
- AMSAA & AMC initial position -  
"No More Requirement Models" - OSRAP



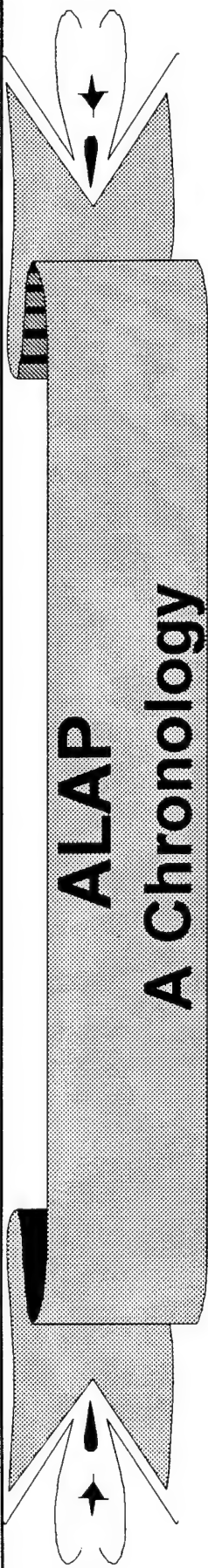
# ALAP Vs OSRAP

## A Chronology



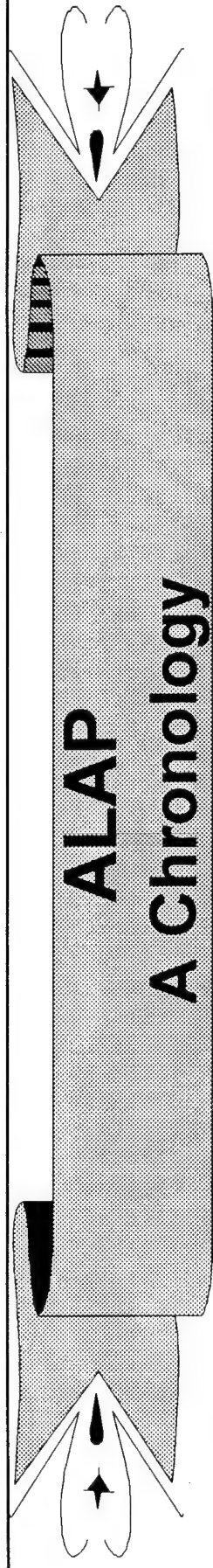
(Round 1)

- Apr - May 95 - Data Research for ALAP Model Development Stops
- May 95 - OSRAP Fact finding begins
- OSRAP - Stockage Requirement & Determination
- ALAP - Wartime Sustainment, MC Predictive & Budget Decision
- Similar Input Requirements



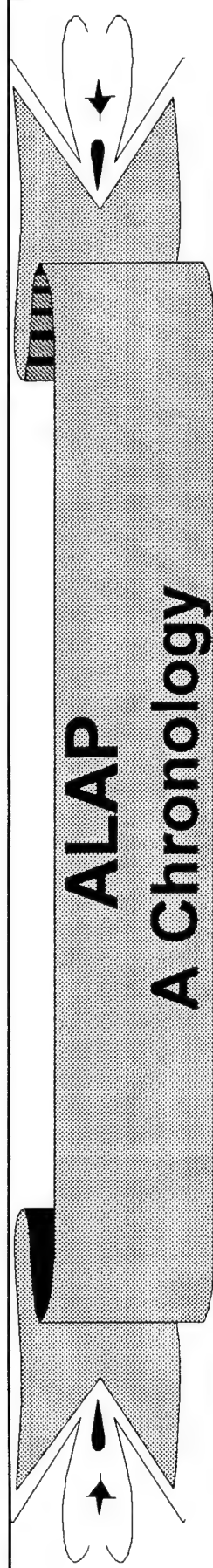
## **ALAP** **A Chronology**

- Jun 95 - AMC assumes Project Oversight -
  - Briefed Findings of OSRAP Investigations to AMC
  - Model Development on hold until...
  - Synergy Turns efforts to FAMMAS Enhancement
  - Suggest other Tasks for ALAP Completion
    - Depot Maintenance Program
    - Integration of FAMMAS & OSRAP

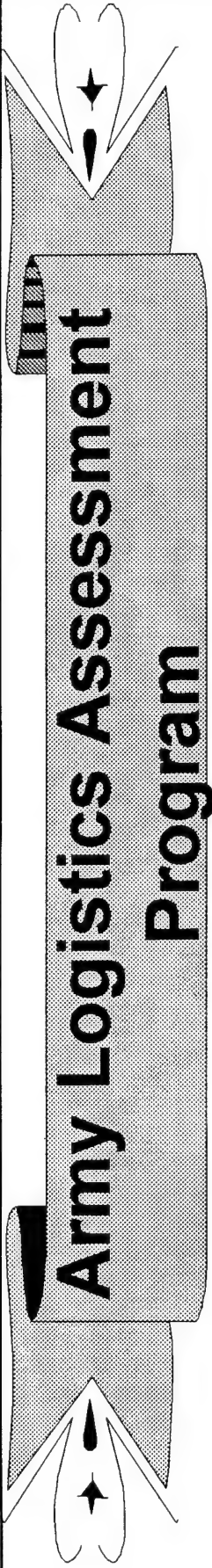


- Jul 95 - Investigation and development of Programmed Depot Maintenance Model favorable to AMC
- Aug 95 - DALO-RMI reserves right to make decision on Project Alterations (Depot Maint Model on hold)
  - Request OSRAP briefing and demo
  - ALAP Model Development continues on hold





- Nov 95 - DALO-RMI gives "go-ahead" for completion of Proof-of-Concept Model
- Jan 96 - FAMMAS CDR/PDR
  - Personnel Changes within DALO-RMI
  - Reversal in thinking vis-a-vis Maintenance Module
  - ALAP Vs FAMMAS (Round 2 ?)

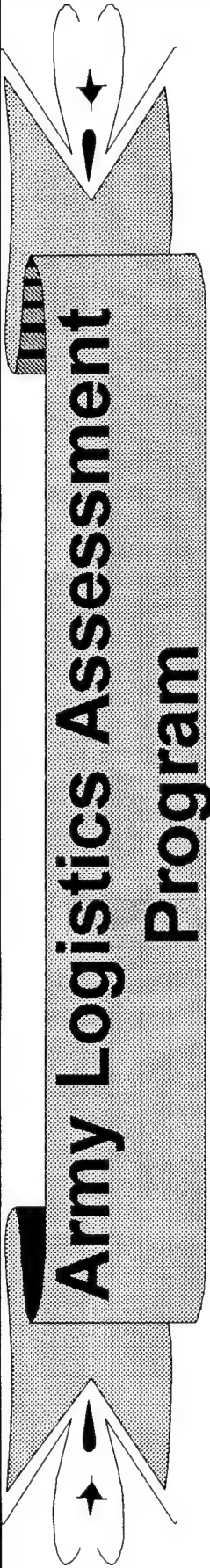


# Army Logistics Assessment Program

## A Two Fold Objective

- Enhance FAMMAS by developing and Installing  
A Maintenance Module
- Investigate Possibility/Feasibility of producing  
A Wartime/Sustainment POM and Budget Assessment  
Decision Support Tool

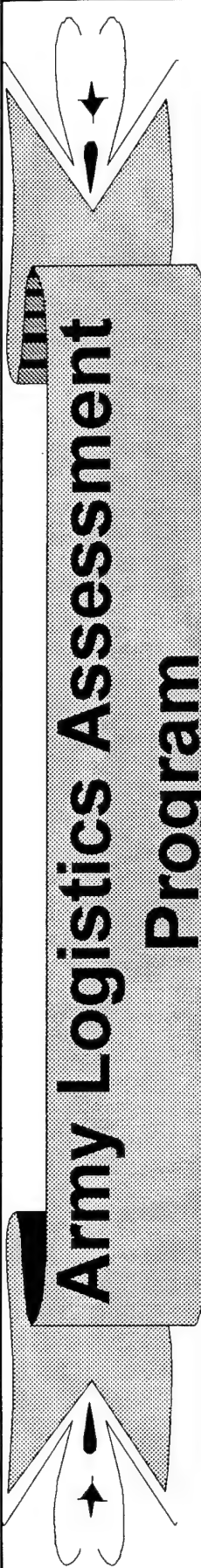




# Army Logistics Assessment Program

## A Two Fold Approach

- **FAMMAS** Maintenance Module -  
Identify key elements to NMCM reporting and  
replicate using available data Sources
- Sustainment Proof of Concept Model-
  - Research Army Wartime Logistic System
  - Research weapon system sustainment efforts
  - Identify and develop data sources
  - Replicate Logistic Sustainment System



# Army Logistics Assessment Program

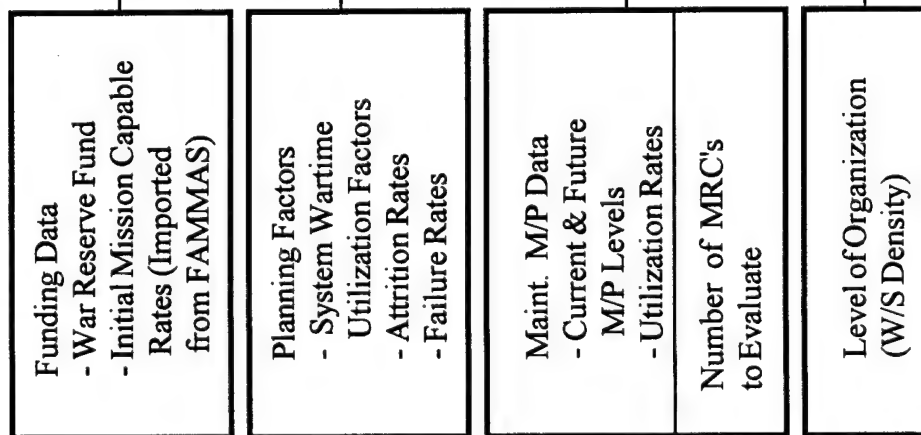
## Status of Development

- **FAMMAS** Maintenance Module
  - Completed - Installed
- Sustainment Model
  - Models Architecture in Preliminary Development
  - Data Sources identified - 90% required data collected
  - Algorithms currently being developed

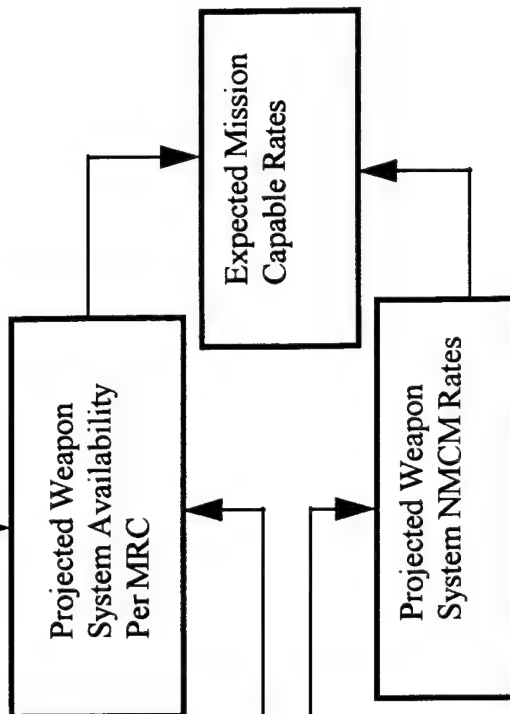
# Army Logistics Assessment Program

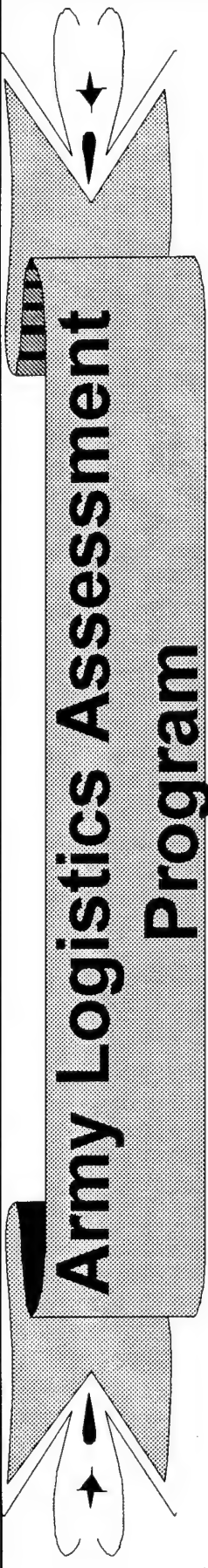
## Preliminary Architecture/Logic Flow

### INPUTS



### OUTPUTS



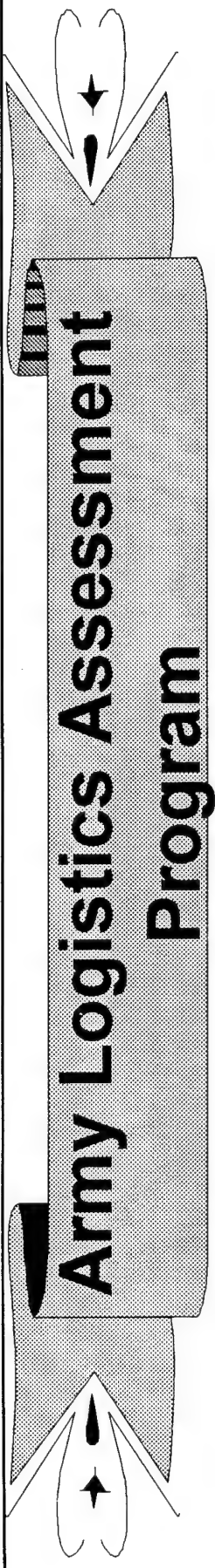


# Army Logistics Assessment Program

## DATA

## DATA SOURCE

Initial MC & NMC Rates	Army FAMMAS
Weapon System Density by Force Structure	TRAC-Lee/CASCOM Operations Logistics Planner
Combat OPTIMO	Concepts Analysis Agency
Current & Future Manpower Rates	Personnel Command MOSLS
Attrition Rates	LOGSA Candidate Item File
Break Rates	



# Army Logistics Assessment Program

## SUMMARY

### Initial Objective

Perform wartime logistic assessments.

The contractor will...install a separate module within FAMMAS which enables the logistics community to assess the impact on system readiness caused by MODs, Depot Maintenance, and common support equipment (CSE)

### Revised Objective

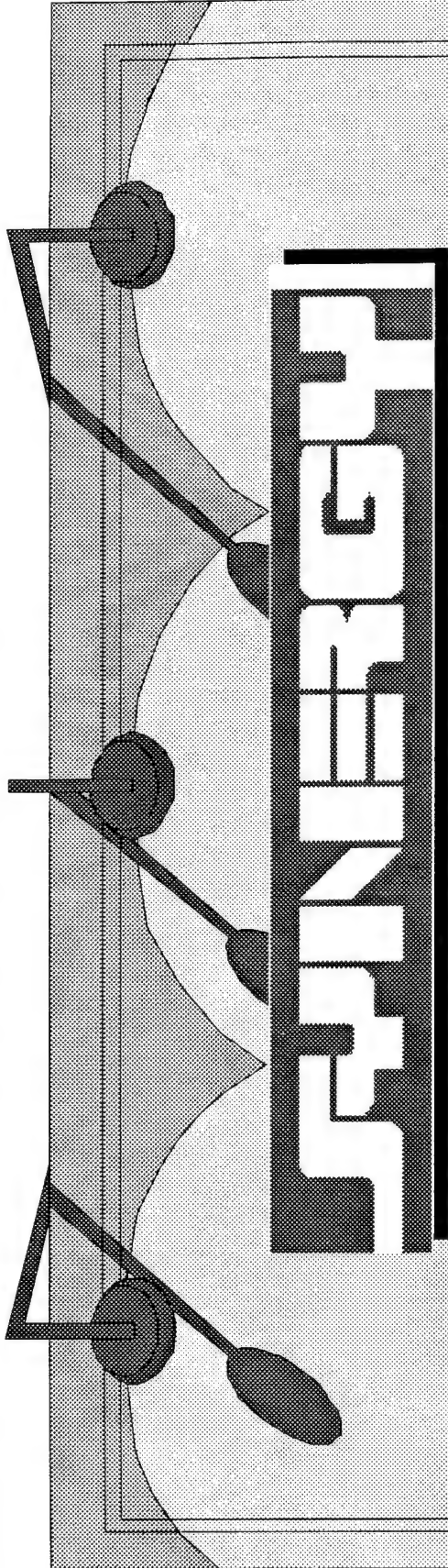
Because of the many start and stop delays, confusion among all involved regarding Project Coordinator, FAMMAS/ALAP confusion, project goals

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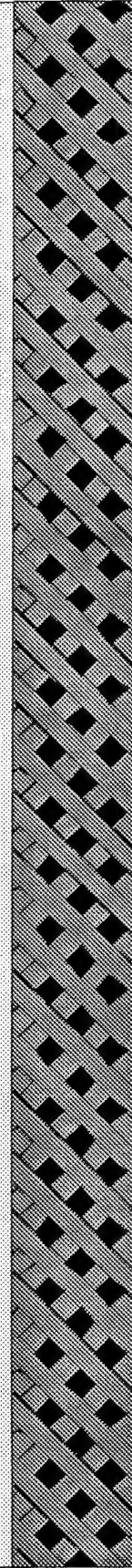
Technical Report and Briefing  
A Proof of Concept Model

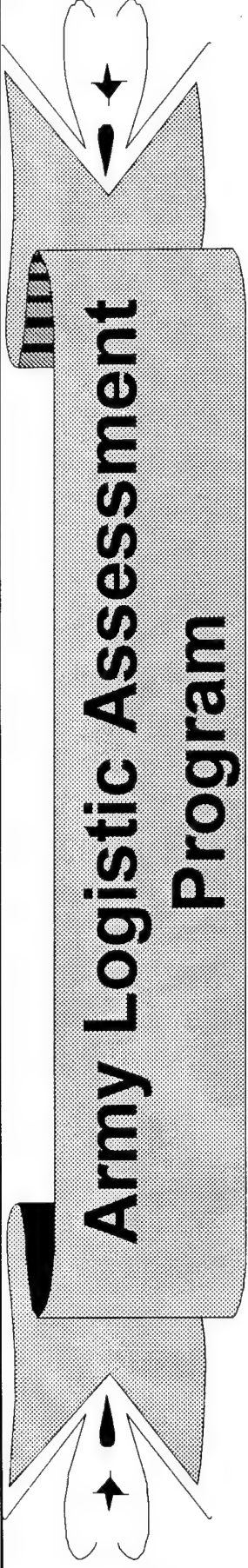
**APPENDIX E**  
**ARMY LOGISTICS ASSESSMENT PROGRAM TECHNICAL BRIEFING**





# Army Logistic Assessment Program Technical Report (Final Brief)



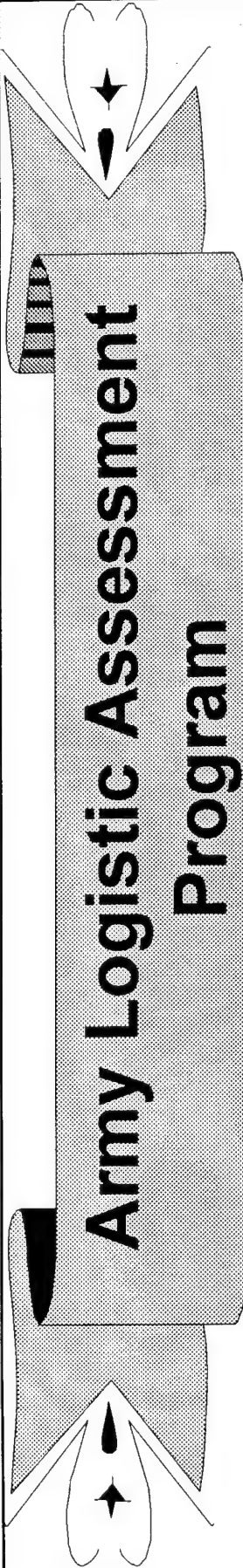


# Army Logistic Assessment Program

## Agenda

- Purpose
- Background/History
- ALAP - The Introduction
- The New Old Project Goal
- The Basic Statement - A Building Block
- Original Architecture
- Final Architecture
- The Proof of Concept Model (POCM)
- Improvements
- Summary

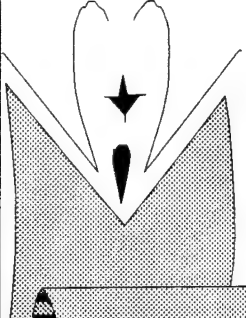




# Army Logistic Assessment Program

## Purpose

- To Provide Project Close-out Briefing
- To Report Project Analysis
- To Report POCM Prognosis
- To Explain/Demonstrate POCM



# Army Logistic Assessment Program



*Do I Have to Listen to this again?*

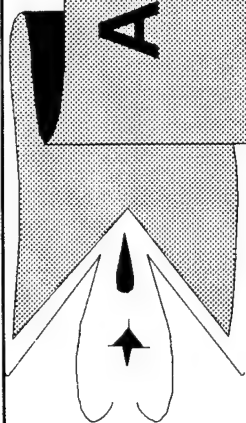
## Background

### FALL 1993:

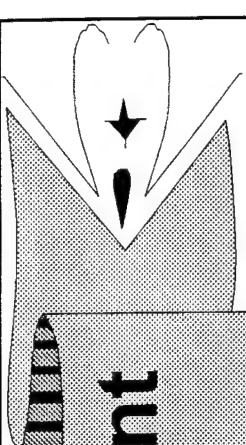
- GEN(R) Thurman, on Meyer Readiness Task Force, Impressed with USAF FAMMAS

### DEC 1993:

- DCSLOG GEN. Salomon and DUSD (LOG), Mr. Klugh direct test on AH-64 Apache - Results were promising



# Army Logistic Assessment Program



## Background

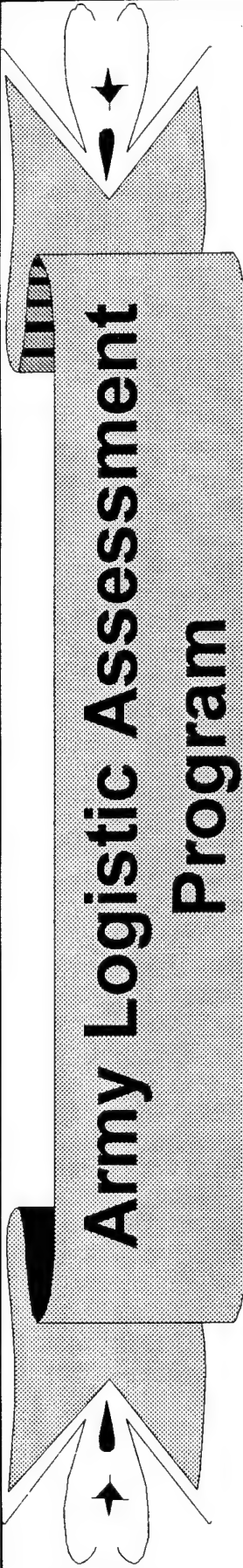


### FEB-MAR 1994:

- GEN Salomon directed testing on additional 3 Helicopter systems, Results Acceptable

### APR 1994:

- DCSLOG GEN. Wilson directed test on M1A1 & Bradley Fighting Vehicle - FAMMAS successfully fitted to ground systems



# Army Logistic Assessment Program



## Background

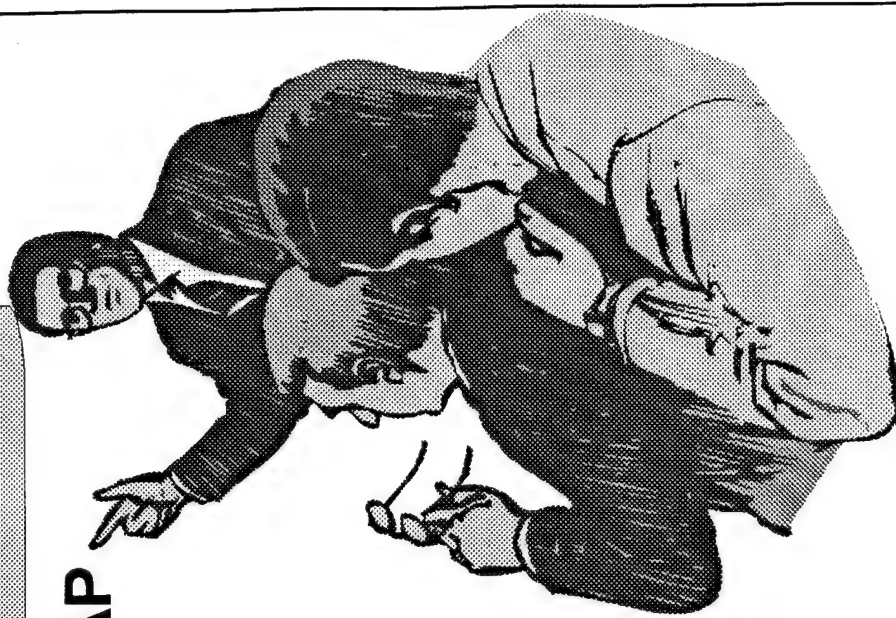
### MAY 1994:

- GEN Wilson directed test on all 16 Major SORTS systems
- Synergy and DALO-RMI negotiate two (2) work efforts

# Army Logistic Assessment Program

## Introduction To ALAP

- Wrong Introductory Brief
- Situation Warranted Decision Brief
- Initial Mistake Haunts ALAP to Completion





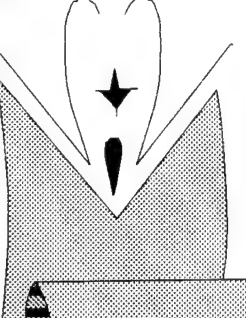
# Army Logistic Assessment Program

## New Decision, Old Goal

- Wartime Model - Sustainment Analysis Based on Funding Levels & Budget Posture
- Basic Statement - Model Foundation
  - Sustainment Linked to OPTEMPO
  - Link Army FAMMAS to Wartime Model



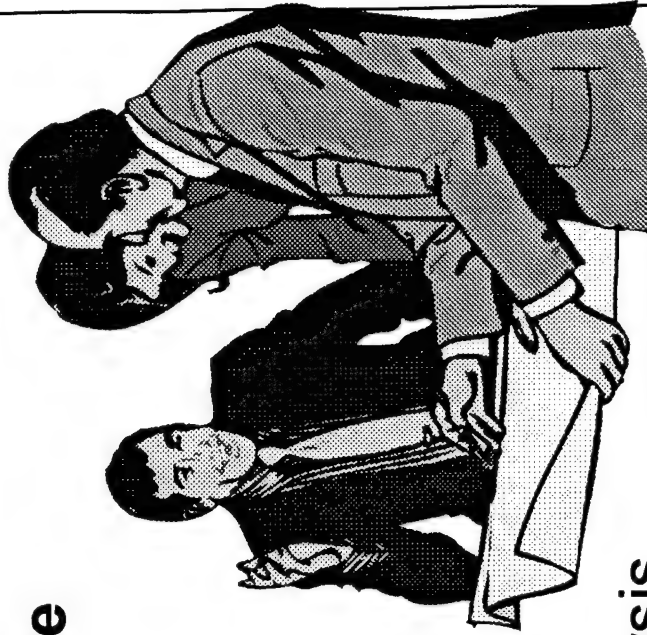




# Army Logistic Assessment Program

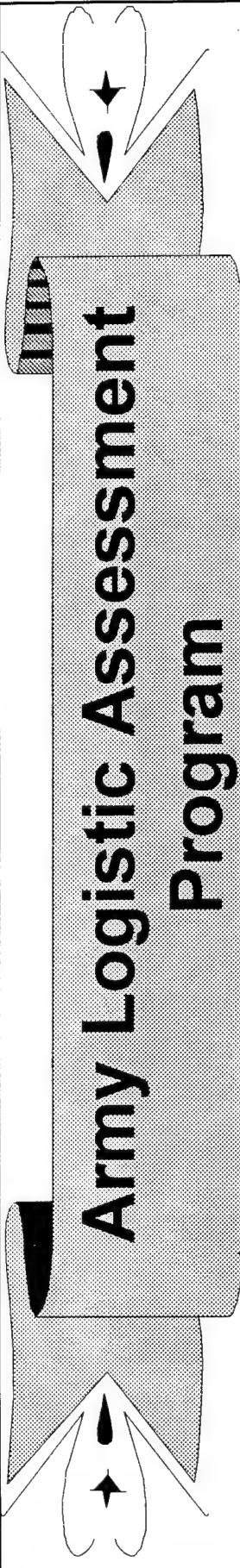
## Original Architecture

- Model Combined Arms Sustainment Based on SRC Deployment
- Sustainment Capability Prediction Tied Base Year - Similar to Army FAMMAS
- Multiple OPTEMPO Sustainment Analysis
- MOSLS Data - Simulate Personnel & Equipment Attrition
- Resupply Simulation



**SPINERGY**

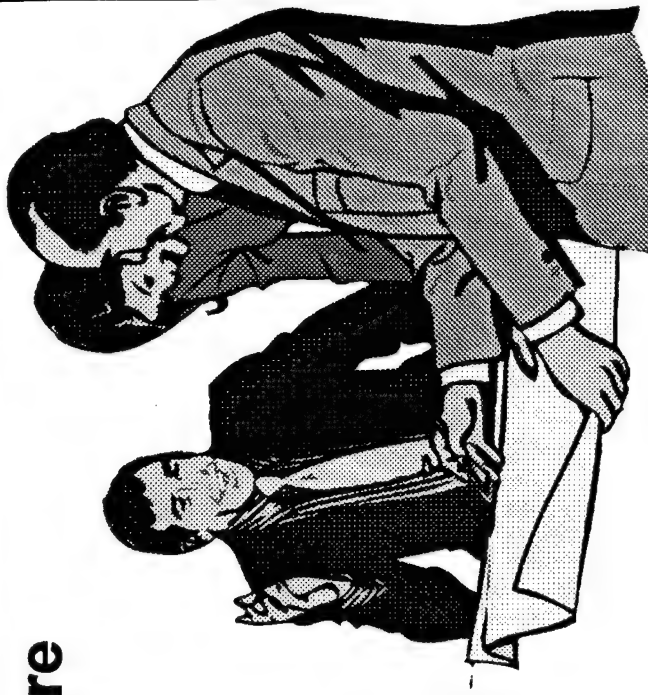
ALAPTECHRPT - 9




# Army Logistic Assessment Program

## Final Architecture

- Sustainment Analysis Based on Hours of Operation
- Single System Analysis
- 15 Day Scenario
- Randomized Attrition Rate
- Emphasis on Maintenance

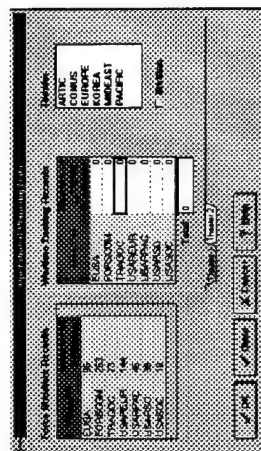




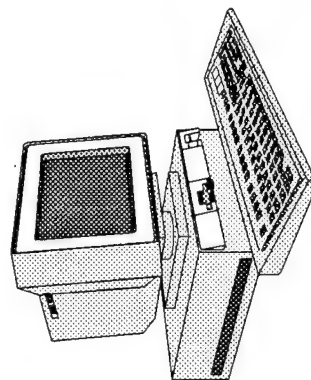


# Army Logistic Assessment Program

# Proof of Concept Model

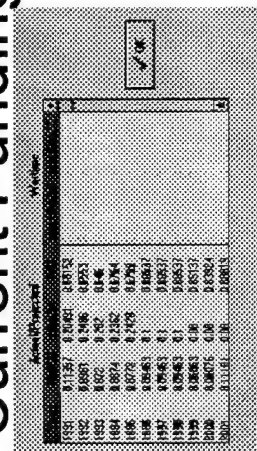
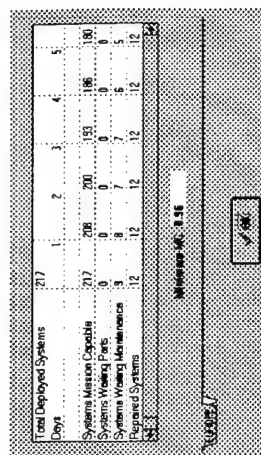


• Built on Army  
FAMMAS Foundation

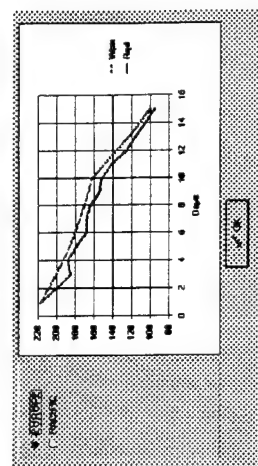


- Gives Weapon System Wartime Availability Based on Current Funding Levels

- Straight Forward Design Routine



- Various Useful Calculation - Not All Configured as Output



**大正三十四年**

# Army Logistic Assessment Program

## Proof of Concept Model

**Operational Planning Data**

**Force Structure Records**

MACOM	Number of Systems
EUSA	96
FORSCOM	263
TRADOC	73
USAREUR	144
USARPAC	46
USARSO	38
USASOC	18

**Wartime Tasking Records**

MACOM	Number of Systems Deployed
EUSA	0
FORSCOM	0
TRADOC	73
USAREUR	144
USARPAC	0
USARSO	0
USASOC	0

Total: 217

**Theater**

ARTIC
CONUS
<b>EUROPE</b>
KOREA
MIDEAST
PACIFIC

☐ Attrition

Theater 1 Theater 2

# Army Logistic Assessment Program

## Proof of Concept Model

**Wartime Outputs**

Total Deployed Systems	217							
Days	1	2	3	4	5			
Systems Mission Capable	217	208	200	193	186	180		
Systems Waiting Parts	0	0	0	0	0	0		
Systems Waiting Maintenance	9	8	7	6	5	5		
Repaired Systems	12	12	12	12	12	12		

Minimum MC 0.96

EUROPE PACIFIC

OK

Analysis/Summary Screen

**WINERGY**



# Army Logistic Assessment Program

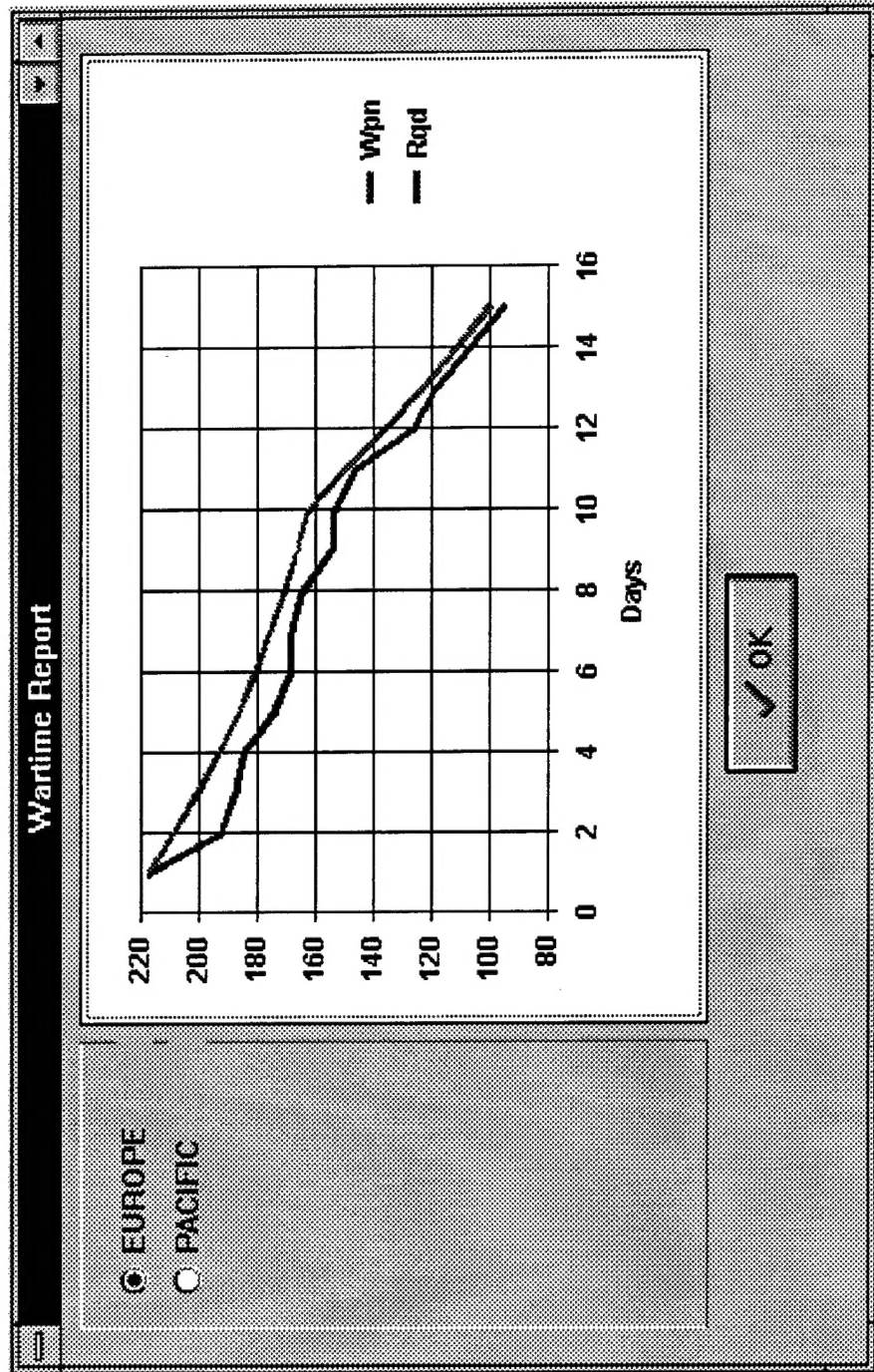
## Proof of Concept Model

Peacetime Report						
Actual/Projected			Wartime			
Year	NMCS	NMCM	MC	Min NMCM	Min NMCS	
1991	0.11357	0.20491	0.68152			
1992	0.0961	0.2486	0.6553			
1993	0.072	0.282	0.646			
1994	0.0874	0.2362	0.6764			
1995	0.0772	0.2429	0.6799			
1996	0.09463	0.1	0.80537			
1997	0.09463	0.1	0.80537			
1998	0.09463	0.1	0.80537			
1999	0.06863	0.08	0.85137			
2000	0.08076	0.08	0.83924			
2001	0.11181	0.08	0.80819			

✓ OK

# Army Logistic Assessment Program

## Proof of Concept Model



Output Screen - Wartime Reports

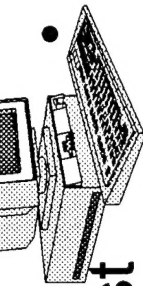
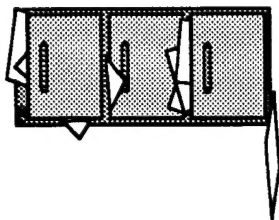
ALAPTECHRPT - 15

SPINERGY

# Army Logistic Assessment Program

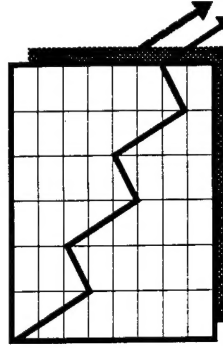
## POCM Data Input & Report Output

### Input

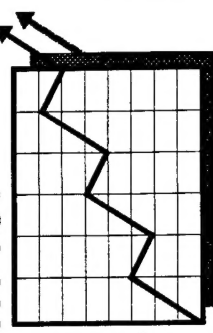


- Mission Profile Development List (TRADOC)-OPLOGPLN
- Candidate Item File (LOGSA)
- Theater Wartime OPTEMPO (CAA) - OPLOGPLN
- Systems MC

### Output



Systems Down for Maintenance



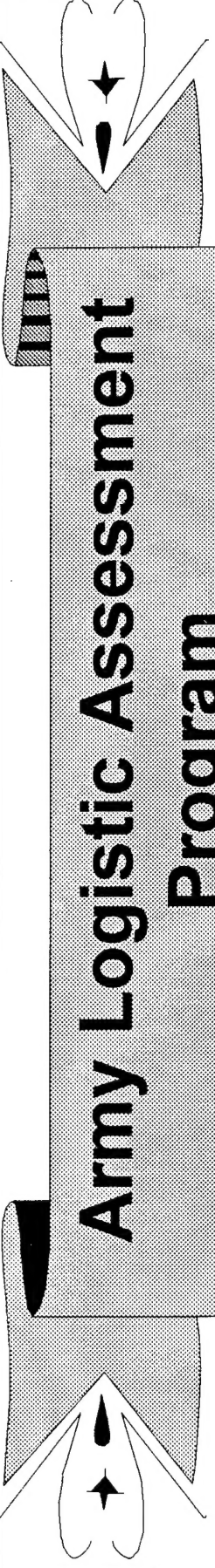
Systems Down for Supply

# of Systems Brought Up

Within 24 Hr Period

Min Wartime MC Rate



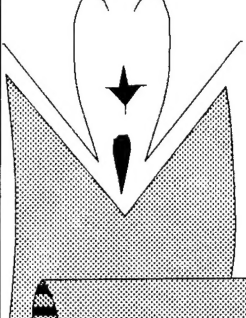


# Army Logistic Assessment Program

## Improvements/Work To Be Done

- Build Combined Arms Analysis Capability
- Add Multiple OPTEMPO Analysis
- Add Resupply Routine
- Add MOSLS Data
- Redesign (with User Input) Analysis Screen
- Integrate With OSRP





# Army Logistic Assessment Program

## Summary



- Concept Proved Viable
- Functionality Sacrificed Because of False Start
- Much Room For Improvement
- Expensive Lesson Learned